

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (currently amended) A method for the production of ~~an~~ a heterologous antibody by an avian cell comprising culturing ~~an~~ a fibroblast, oviduct, embryonic, germ-line, ovum, or testicular avian cell transfected with at least one expression vector comprising a transcription unit having a nucleotide sequence encoding an immunoglobulin polypeptide operably linked to a transcription promoter and a transcriptional terminator under conditions such that said nucleotide sequence is expressed, and wherein the ~~cultured~~ avian cell produces an immunoglobulin polypeptide ~~capable of forming that forms~~ an antibody that selectively binds an antigen or an immunoglobulin polypeptide that, when combined with its cognate light or heavy chain, forms an antibody that selectively binds an antigen.
2. (currently amended) The method of Claim 1, wherein the immunoglobulin polypeptide is an immunoglobulin heavy chain variable region, an immunoglobulin heavy chain variable region and a constant region, an immunoglobulin light chain variable region, an immunoglobulin light chain variable region and a constant region ~~and or~~ a single-chain antibody comprising two linked immunoglobulin variable regions.
3. (original) The method of Claim 1, wherein the at least one expression vector further encodes a second immunoglobulin polypeptide and an internal ribosome entry site (IRES).
4. (currently amended) The method of Claim 1, wherein the immunoglobulin polypeptide has a peptide region ~~suitable~~ for the isolation of the immunoglobulin polypeptide.
5. (currently amended) The method of Claim 1, wherein the avian cell is ~~derived from~~ a chicken cell, a turkey cell, a duck cell, a goose cell, a quail cell, a pheasant cell, a ratite cell, an ornamental bird cell or a feral bird cell.

6. (cancelled).
7. (currently amended) The method of Claim 6 1, wherein the fibroblast, oviduct, embryonic, germ-line, ovum, or testicular avian cell is an oviduct cell or an embryonic cell.
8. (original) The method of Claim 1, wherein the avian cell is cultured *in vivo* in an avian species selected from a chicken, a turkey, a duck, a goose, a quail, a pheasant, a ratite, an ornamental bird or a feral bird.
9. (currently amended) The method of Claim 1, wherein the at least one expression vector is selected from a viral vector, a plasmid vector, or a linear nucleic acid vector, ~~or a combination thereof.~~
10. (original) The method of Claim 9, wherein the at least one expression vector is a viral vector selected from the group comprising avian leukosis virus, adenoviral vectors, transferrin-polylysine enhanced adenoviral vectors, human immunodeficiency virus vectors, lentiviral vectors, Moloney murine leukemia virus-derived vectors or variants thereof.
11. (original) The method of Claim 9, wherein the at least one expression vector is a plasmid vector.
12. (original) The method of Claim 1, wherein the transcriptional promoter of the at least one expression vector is a constitutively active promoter.
13. (original) The method of Claim 12, wherein the transcriptional promoter of the at least one expression vector is a cytomegaloviral promoter.
14. (original) The method of Claim 1, wherein the transcriptional promoter of the at least one expression vector is a tissue-specific promoter.
15. (currently amended) The method of Claim 14, wherein the tissue-specific promoter is ~~operable~~ directs expression in oviduct cells of an avian species.

16. (original) The method of Claim 15, wherein the tissue-specific promoter is selected from the promoters of the genes encoding ovalbumin, lysozyme, ovomucoid, ovotransferrin (conalbumin), and ovomucin.
17. (original) The method of Claim 1, wherein the transcriptional promoter of the at least one expression vector is a regulatable promoter.
18. (original) The method of Claim 1, wherein the transcriptional terminator of the at least one expression vector comprises a region encoding a bovine growth hormone transcriptional terminator.
19. (original) The method of Claim 1, wherein the immunoglobulin polypeptide encoded by the transcriptional unit of the at least one expression vector is an immunoglobulin heavy chain variable region or a variant thereof.
20. (original) The method of Claim 19, wherein the immunoglobulin heavy chain further comprises a D region, a J region and a C region.
21. (original) The method of Claim 1, wherein at least one immunoglobulin polypeptide encoded by the transcriptional unit of at least one expression vector is an immunoglobulin light chain variable region or a variant thereof.
22. (original) The method of Claim 21, wherein the immunoglobulin light chain further comprises a J region and a C region.
23. (original) The method of Claim 19, wherein the immunoglobulin polypeptide is a mammalian or an avian immunoglobulin heavy chain polypeptide.
24. (original) The method of Claim 23, wherein the immunoglobulin heavy chain polypeptide comprises at least two domains derived from at least two animal species.
25. (original) The method of Claim 23, wherein the mammal is a human, a mouse, a rat, a rabbit, a goat, a sheep, a cow or a horse, and wherein the avian is a chicken, a turkey, a duck, a goose, a quail, a pheasant, a ratite, an ornamental bird or a feral bird.

26. (original) The method of Claim 1, wherein the immunoglobulin polypeptide is a mammalian or an avian immunoglobulin light chain polypeptide.
27. (original) The method of Claim 26, wherein the immunoglobulin polypeptide comprises at least two domains derived from at least two animal species.
28. (original) The method of Claim 26, wherein the mammal is a human, a mouse, a rat, a rabbit, a goat, a sheep, a cow or a horse, and wherein the avian is a chicken, a turkey, a duck, a goose, a quail, a pheasant, a ratite, and ornamental bird or a feral bird.
29. (original) The method of Claim 1, wherein the immunoglobulin polypeptide encoded by the transcriptional unit of at least one expression vector comprises an immunoglobulin heavy chain variable region, an immunoglobulin light chain variable region, and a linker peptide, and thereby forming a single-chain antibody.
30. - 61. (cancelled).
62. (new) The method of Claim 1, wherein the immunoglobulin polypeptide is human.
63. (new) The method of Claim 1, wherein the immunoglobulin polypeptide is humanized.